

IN THE CLAIMS

This listing of claims replaces all prior listings and versions of the claims in the present application.

Listing of Claims:

Claim 1 (Currently Amended): A filter paper pod packaging machine ~~characterised by the fact that it comprises~~ comprising a polygonal prismatic wheel ~~[(P)]~~ with an ~~intermittently rotating~~ horizontal axis ~~[(R)]~~ for intermittently rotating the wheel, each flat face ~~[(L)]~~ of the ~~prism (P)~~ prismatic wheel directly incorporating at least one recess ~~[(G)]~~ matching ~~[(the)]~~ size and shape of ~~[(the)]~~ pods to be produced, wherein a first web of filter paper, fed from a spool and overlaid by a second web of filter paper fed from another spool is wrapped around the flat faces of the polygonal prismatic wheel, and wherein a series of cuts are made by cutting means in the first web of filter paper in appropriate positions around a central zone corresponding to the at least one recess impressed in the prismatic wheel.

Claim 2 (Currently Amended): The filter paper pod packaging machine of the ~~previous claim 1, characterised by the fact that~~ wherein each flat face ~~[(L)]~~ of the ~~prism (P)~~ prismatic wheel may be equipped with interchangeable dies ~~(S) featuring~~ having recesses ~~[(G)]~~ that geometrically match the size and shape of the pods to be produced.

Claim 3 (Currently Amended): The filter paper pod packaging machine of claims 1 or 2, ~~characterised by the fact that by varying the length of each side of the polygon and by varying the width of each face of the prism it is possible to create a plurality of recesses (G) on~~ wherein each flat face ~~[(L)]~~ of the ~~prism~~ prismatic wheel has a plurality of recesses, either in a radial or axial configuration, in one or more rows.

Claims 4-5 (Canceled).

Claim 6 (Currently Amended): The filter paper pod packaging machine of the ~~previous claims claim 1, characterised by the fact that~~ wherein a forming punch $[(M)]$ is applied on the web $[(F1)]$ in the central zone surrounded by the cuts $[(t)]$ to mould the web $[(F1)]$ to ~~the~~ a shape $[(C)]$ of the at least one recess $[(G)]$, said moulding of the filter paper being ~~optimised~~ optimized by the presence of cuts which flare out $[(T)]$ to facilitate ~~the~~ formation of a depression in the filter paper web $[(F1)]$ by action of the forming punch $[(M)]$, while ~~the~~ a peripheral zone of the filter paper $[(F1)]$ remains flat and adherent to the face $[(L)]$ of the ~~prism (P)~~ prismatic wheel.

Claim 7 (Currently Amended): The filter paper pod packaging machine of ~~the previous claims claim 1, characterised by the fact that~~ wherein the forming punch $[(M)]$ creates a deeper recess $[(C)]$ in the web $[(F1)]$ by flaring the cuts $[(t)]$ to a greater width $[(W)]$, while ~~the~~ a peripheral zone of the filter paper $[(F1)]$ remains flat and adherent to the face $[(L)]$ of the prism $[(P)]$.

Claim 8 (Currently Amended): The filter paper pod packaging machine of ~~the previous claims claim 1, characterised by the fact that~~ wherein the greater depth of the recess $[(C)]$ allows ~~the~~ a pod to hold the same quantity of compacted product as symmetrical pods $[(E)]$, the diameter being equal.

Claim 9 (Currently Amended): The filter paper pod packaging machine of ~~the previous claims claim 1, characterised by the fact that~~ wherein the recesses $[(G)]$ feature holes $[(f)]$ through which suction is applied to attract the filter paper $[(F1)]$, thereby

facilitating ~~the~~ moulding of the latter to a shape ~~[[C]]~~ matching that of the recess ~~[[G]]~~ during the operation of the forming punch~~[[M]]~~.

Claim 10 (Currently Amended): The filter paper pod packaging machine of ~~the previous claims claim 7, characterised by the fact that wherein~~ the suction applied through the holes ~~[[f]]~~ in the recesses ~~[[G]]~~ remains on even after the forming punch ~~[[M]]~~ has completed its action in order to assure the adherence of the filter paper ~~[[F1]]~~ to the recesses ~~[[G]]~~ during subsequent processing.

Claim 11 (Currently Amended): The filter paper pod packaging machine of ~~the previous claims claim 1, characterised by the fact that wherein~~ the depression~~[[C]]~~, obtained by the action of the forming punch ~~[[M]]~~ on the filter paper~~[[F1]]~~, is filled with a pre-measured volume of product that will be compacted by means of a specific concave tamping punch ~~[[N]]~~ for producing symmetrical pods.

Claim 12 (Currently Amended): The filter paper pod packaging machine of ~~the previous claims claim 1, characterised by the fact that wherein~~ the deeper depression~~[[C]]~~, obtained by the action of the forming punch ~~[[M]]~~ on the filter paper~~[[F1]]~~, is filled with a pre-measured volume of product that will be compacted by means of a specific flat tamping punch ~~[[N']]~~ for producing asymmetrical pods and subsequently sealed with a flat top made from filter paper (F2) fixed onto the pod along ~~the~~ edges adherent to the faces ~~[[L]]~~ of the polygon prismatic ~~polygon(P) wheel~~.

Claim 13 (Currently Amended): Filter pod obtained with the packaging machine of ~~the previous claims ; characterised by the fact that being compacted and having a flat top it~~

~~may be used to make an espresso of good quality with less coffee or an espresso of better~~
~~quality with the same quantity of coffee~~ comprising a polygonal prismatic wheel with a
horizontal axis for intermittently rotating the wheel, each flat face of the prismatic wheel
directly incorporating at least one recess matching size and shape of pods to be produced,
wherein a first web of filter paper, fed from a spool and overlaid by a second web of filter
paper fed from another spool, is wrapped around the flat faces of the polygonal prismatic
wheel, wherein a series of cuts are made by cutting means in the first web of filter paper in
appropriate positions around a central zone corresponding to the at least one recess impressed
in the prismatic wheel.